

# SubWave

GPS Environment Emission Equipment



**SYNTONY**  
GNSS

## Indoor Location For Subway

Security issues are increasingly demanding on public infrastructures operators, and in today's instable geopolitical environment, most countries are willing to deploy emergency regulations (E911 / E112...) to easily locate safety forces (using TETRA or P25 receivers) and/or victims (emergency calls).

Inside tunnels or subway stations, regular GPS signal cannot be received due to very important signal fading between the outside and the inside hampering the functioning of the location function of TETRA receivers and user's smartphone.

**That is why Syntony created SubWave.** Designed to emit multiple GPS zone for subway stations and tunnels, it matches top-end processing performance and RF quality with utmost flexibility in simulation control.

**Corner cases.** SubWave was designed to emit a perfect emulation of the "real" GPS signal, with a high synchronization rate with outside constellation. All the process is finely controlled and indefinitely repeatable.

**A future-proof investment.** The core of SubWave is its software, ensuring full compatibility and operability regardless of new constellations, satellites and codes arising in the future. Most functional upgrades will then be software-only.

**Affordable TCO.** Hardware maintenance, calibration, and support at affordable prices make SubWave a profitable investment offering a quick ROI.

*SubWave is delivered in a 4U  
19 inches form factor to be  
integrated inside a 19 inches  
cabinet*



✂ From 3 up to 6 RF output

✂ Extensive options

- ✂ Full time and location control
- ✂ PVT definition for each zone
- ✂ Emission power for each zone
- ✂ Synchronization control with outdoor GPS at << 1 microsec
- ✂ Alarm monitoring
- ✂ GPS redundancy
- ✂ Front LED error status
- ✂ Extractable SSD drive for higher performance and easy maintenance
- ✂ High reliability
- ✂ Easy Maintenance

